

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/536,955
Source: py
Date Processed by STIC: 2/16/06

ENTERED



PCT

RAW SEQUENCE LISTING

DATE: 02/16/2006

PATENT APPLICATION: US/10/536,955

TIME: 12:49:51

Input Set : A:\P03068US1 SEQ ID.txt

Output Set: N:\CRF4\02162006\J536955.raw

```

4 <110> APPLICANT: Qing Zhu
5     Ju-Tao Guo
6     Christoph Seeger
8 <120> TITLE OF INVENTION: Replication of Hepatitis C Virus in
9     Non-Hepatic Epithelial and Mouse Hepatic Cells
12 <130> FILE REFERENCE: 0149-PO3068US1
14 <140> CURRENT APPLICATION NUMBER: 10/536,955
15 <141> CURRENT FILING DATE: 2005-05-31
17 <150> PRIOR APPLICATION NUMBER: PCT/US03/39722
18 <151> PRIOR FILING DATE: 2003-12-12
20 <150> PRIOR APPLICATION NUMBER: 60/433,303
21 <151> PRIOR FILING DATE: 2002-12-13
23 <160> NUMBER OF SEQ ID NOS: 16
25 <170> SOFTWARE: FastSEQ for Windows Version 3.0
27 <210> SEQ ID NO: 1
28 <211> LENGTH: 11313
29 <212> TYPE: DNA
30 <213> ORGANISM: Artificial Sequence
32 <220> FEATURE:
33 <223> OTHER INFORMATION: Plasmid
35 <400> SEQUENCE: 1
36 gccagccccc gattgggggc gacactccac catagatcac tcccctgtga ggaactactg      60
37 tcttcacgca gaaagcgtct agccatggcg ttagtatgag tgctcgtgcag cctccaggac      120
38 cccccctccc gggagagcca tagtggtctg cggaaccggt gagtacaccg gaattgccag      180
39 gacgaccggg tcctttcttg gatcaaccgc ctcaatgcct ggagatttgg gcgtgcccc      240
40 gcgagactgc tagccgagta gtgttgggtc gcgaaaggcc ttgtggtact gcctgatagg      300
41 gtgcttgcca gtgccccggg aggtctcgta gaccgtgcac catgagcacg aatcctaaac      360
42 ctcaaagaaa aaccaaaggg cgcgccatga ttgaacaaga tggattgcac gcaggttctc      420
43 cggccgcttg ggtggagagg ctattcggct atgactgggc acaacagaca atcggctgct      480
44 ctgatgccgc cgtgttcagg ctgtcagcgc aggggcgccc ggttcttttt gtcaagaccg      540
45 acctgtccgg tgccctgaat gaactgcagg acgaggcagc gcggctatcg tggctggcca      600
46 cgacgggcgt tccttgccga gctgtgctcg acgttgtcac tgaagcggga agggactggc      660
47 tgctattggg cgaagtgcgg gggcaggatc tcctgtcacc tcaccttgct cctgccgaga      720
48 aagtatccat catggctgat gcaatgcggc ggctgcatac gcttgatccg gctacctgcc      780
49 cattcgacca ccaagcgaaa catcgcatcg agcagcacag tactcggatg gaagccggtc      840
50 ttgtcgatca ggatgatctg gacgaagagc atcaggggct cgcgccagcc gaactgttcg      900
51 ccaggctcaa ggcgcgcgat cccgacggcg aggatctcgt cgtgacctat ggcgatgcct      960
52 gcttgccgaa tatcatggtg gaaaatggcc gcttttcttg attcatcgac tgtggccggc      1020
53 tgggtgtggc ggaccgctat caggacatag cgttggctac ccgtgatatt gctgaagagc      1080
54 ttggcggcga atgggctgac cgcttctctg tgctttacgg tategcgcgt cccgattcgc      1140
55 agcgcacgcg cttctatcgc cttcttgacg agttctcttg agtttaaaca gaccacaacg      1200
56 gtttccctct agcgggatca attccgcccc tctccctccc cccccctaa cgttactggc      1260
57 cgaagccgct tgggaataagg ccggtgtgcg tttgtctata tggtattttc caccatattg      1320

```

RAW SEQUENCE LISTING

DATE: 02/16/2006

PATENT APPLICATION: US/10/536,955

TIME: 12:49:51

Input Set : A:\P03068US1 SEQ ID.txt

Output Set: N:\CRF4\02162006\J536955.raw

58	ccgtctttttg	gcaatgtgag	ggccccgaaa	cctggccctg	tcttcttgac	gagcattcct	1380
59	aggggtcttt	cccctctcgc	caaaggaatg	caaggtctgt	tgaatgtcgt	gaaggaagca	1440
60	gttcctctgg	aagcttcttg	aagacaaaca	acgtctgtag	cgaccctttg	caggcagcgg	1500
61	aaccccccac	ctggcgacag	gtgcctctgc	ggccaaaagc	cacgtgtata	agatacacct	1560
62	gcaaaggcgg	cacaacccca	gtgccacgtt	gtgagttgga	tagttgtgga	aagagtcaaa	1620
63	tggctctcct	caagcgtatt	caacaagggg	ctgaaggatg	cccagaaggt	acccattgt	1680
64	atgggatctg	atctggggcc	tcggtgcaca	tgctttacat	gtgtttagtc	gaggttaaaa	1740
65	aacgtctagg	ccccccgaac	cacggggacg	tggttttcct	ttgaaaaaca	cgataatacc	1800
66	atggcgctta	ttacggccta	ctcccaacag	acgcgaggcc	tacttggctg	catcatcact	1860
67	agcctcacag	gccgggacag	gaaccagggtc	gagggggagg	tccaagtggg	ctccaccgca	1920
68	acacaatctt	tcctggcgac	ctgcgtcaat	ggcgtgtgtt	ggactgtcta	tcattggtgcc	1980
69	ggctcaaaga	cccttgccgg	cccaaagggc	ccaatcaccc	aaatgtacac	caatgtggac	2040
70	caggacctcg	tcggctggca	agcgcccccc	ggggcgcggt	ccttgacacc	atgcacctgc	2100
71	ggcagctcgg	acctttactt	ggtcacgagg	catgccgatg	tcattccggg	gcgcggcgcg	2160
72	ggcgacagca	gggggagcct	actctcccc	aggcccgctc	cctacttgaa	gggctcttcg	2220
73	ggcgtccac	tgctctgccc	ctcggggcac	gctgtgggca	tctttcgggc	tgccgtgtgc	2280
74	acccgagggg	ttgcgaaggc	ggtggacttt	gtaccgctcg	agtctatgga	aaccactatg	2340
75	cgggtcccgg	tcttcacgga	caactcgtcc	cctccggccg	taccgcagac	attccagggtg	2400
76	ggcagctctac	agggccctac	tggtagcggc	aagagcacta	aggtgccggg	tgcgtagtga	2460
77	gcccgaaggt	ataaggtgct	tgctccgaac	cgcgtcgtcg	ccgccaccct	aggtttccgg	2520
78	gcgtatatgt	ctaaggcaca	tggtatcgac	cctaacatca	gaaccggggg	aaggaccatc	2580
79	accacgggtg	cccccatcac	gtactccacc	tatggcaagt	ttcttgccga	cgggtggttc	2640
80	tctgggggcg	cctatgacat	cataatatgt	gatgagtgcc	actcaactga	ctcgaccact	2700
81	atcctgggca	tcggcacagt	cctggaccaa	gcggagacgg	ctggagcgcg	actcgtcgtg	2760
82	ctcgccaccg	ctacgcctcc	gggatcggtc	accgtgccac	atccaaacat	cgaggagggtg	2820
83	gctctgtcca	gcactggaga	aatccccctt	tatggcaaag	ccatccccat	cgagaccatc	2880
84	aaggggggga	ggcacctcat	tttctgccat	tccaagaaga	aatgtgatga	gctcgccgcg	2940
85	aagctgtccg	gcctcggact	caatgctgta	gcataattacc	ggggccttga	tgtatccgtc	3000
86	ataccaacta	gcggagacgt	cattgtcgta	gcaacggacg	ctctaattgac	gggctttacc	3060
87	ggcgatttcg	actcagtgat	cgactgcaat	acatgtgtca	cccagacagt	cgacttcagc	3120
88	ctggaccoga	ccttcaccat	tgagacgacg	accgtgccac	aagacgcggg	gtcacgctcg	3180
89	cagcggcgag	gcaggactgg	taggggcagg	atgggcattt	acaggtttgt	gactccagga	3240
90	gaacggccct	cgggcatggt	cgattcctcg	gttctgtgcg	agtgtatgga	cgcgggctgt	3300
91	gcttggtacg	agctcacgcc	cgccgagacc	tcagttaggt	tgccgggctta	cctaaacaca	3360
92	ccagggttgc	ccgtctgcca	ggaccatctg	gagttctggg	agagcgtctt	tacaggcctc	3420
93	acccacatag	acgcccattt	cttgtcccag	actaagcagg	caggagacaa	cttcccctac	3480
94	ctggtagcat	accaggctac	ggtgtgcgcc	agggctcagg	ctccacctcc	atcgtgggac	3540
95	caaagtgtga	agtgtctcat	acggctaaag	cctacgctgc	acggggccaac	gcccctgctg	3600
96	tataggctgg	gagccgttca	aaacgaggtt	actaccacac	accccataac	caaatacatc	3660
97	atggcatgca	tgtcggctga	cctggagggtc	gtcacgagca	cctgggtgct	ggtaggcgga	3720
98	gtcctagcag	ctctggccgc	gtattgcctg	acaacaggca	gcgtgggtcat	tgtgggcagg	3780
99	atcatcttgt	cgggaaagcc	ggccatcatt	cccagacagg	aagtccttta	ccgggaggtc	3840
100	gatgagatgg	aagagtgcgc	ctcacacctc	ccttacatcg	aacagggaat	gcagctcgcc	3900
101	gaacaattca	aacagaaggc	aatcgggttg	ctgcaaacag	ccaccaagca	agcggagggt	3960
102	gctgctcccc	tggtggaatc	caagtggcgg	accctcgaag	ccttctgggc	gaagcatatg	4020
103	tgggaatttc	tcagcgggat	acaatatatta	gcaggcttgt	ccactctgcc	tggcaacccc	4080
104	gcgatagcat	cactgatggc	attcacagcc	tctatcacca	gcccgtcac	cacccaacat	4140
105	accctcctgt	ttaacatcct	gggggggatgg	gtggccgccc	aacttgctcc	tcccagcgt	4200
106	gcttctgctt	tcgtaggcgc	cggcatcgct	ggagcggctg	ttggcagcat	aggccttggg	4260

RAW SEQUENCE LISTING

DATE: 02/16/2006

PATENT APPLICATION: US/10/536,955

TIME: 12:49:51

Input Set : A:\P03068US1 SEQ ID.txt

Output Set: N:\CRF4\02162006\J536955.raw

107	aaggtgcttg	tggatatattt	ggcaggttat	ggagcagggg	tggcaggcgc	gctcgtggcc	4320
108	tttaaggtca	tgagcggcga	gatgccctcc	accgaggacc	tggttaacct	actccctgct	4380
109	atcctctccc	ctggcgccct	agtcgtcggg	gtcgtgtgcg	cagcgatact	gcgtcggcac	4440
110	gtgggcccag	gggagggggc	tgtgcagtgg	atgaaccggc	tgatagcggt	cgcttcgcgg	4500
111	ggtaaccacg	tctcccccac	gcactatgtg	cctgagagcg	acgtgcagc	acgtgtcact	4560
112	cagatcctct	ctagtcttac	catcactcag	ctgctgaaga	ggcttcacca	gtggatcaac	4620
113	gaggactgct	ccacgccatg	ctccggctcg	tggctaagag	atgtttggga	ttggatatgc	4680
114	acggtgttga	ctgatttcaa	gacctggctc	cagtccaagc	tcctgccgcg	attgccggga	4740
115	gtccccctct	tctcatgtca	acgtgggtac	aagggaagtct	ggcggggcga	cggcatcatg	4800
116	caaaccacct	gcccattgtg	agcacagatc	accggacatg	tgaaaaacgg	ttccatgagg	4860
117	atcgtggggc	ctaggacctg	tagtaaacacg	tggcatggaa	cattccccat	taacgcgtac	4920
118	accacggggc	cctgcacgcc	ctccccggcg	caaattatt	ctagggcgct	gtggcgggtg	4980
119	gctgctgagg	agtacgtgga	ggttacgcgg	gtgggggatt	tccactacgt	gacgggcatg	5040
120	accactgaca	acgtaaaagt	cccgtgtcag	gttccggccc	ccgaattctt	cacagaagtg	5100
121	gatgggggtg	ggttgacacg	gtacgctcca	gcgtgcaaac	ccctcctacg	ggaggaggtc	5160
122	acattcctgg	tcgggctcaa	tcaatacctg	gttgggtcac	agctcccatg	cgagcccgaa	5220
123	ccggacgtag	cagtgtcac	ttccatgtct	accgaccctt	cccacattac	ggcggagacg	5280
124	gctaagcgta	ggctggccag	gggatctccc	ccctccttgg	ccagctcatc	agctagccag	5340
125	ctgtctgcgc	cttctttgaa	ggcctaatgc	actaccgtct	atgactcccc	ggacgctgac	5400
126	ctcatcgagg	ccaacctccc	gtggcgccag	gagatggcgc	ggaacatcac	ccgcgtggag	5460
127	tcagaaaata	aggtagtaat	tttggactct	ttcgagccgc	tccaagcgga	ggaggatgag	5520
128	agggaaagtat	ccgttccggc	ggagatcctg	cggaggtcca	ggaaattccc	tcgagcgatg	5580
129	cccatatggg	cacgcccggg	ttacaaccct	ccactgttag	agtcctggaa	ggaccgggac	5640
130	tacgtccctc	cagtgggtaca	cgggtgtcca	ttgccgcctg	ccaaggcccc	tccgatacca	5700
131	cctccacgga	ggaagaggac	ggttgtcctg	tcagaatcta	ccgtgtcttc	tgcttggcgc	5760
132	gagctcgcca	caaagacctt	cggcagctcc	gaatcgtcgc	ccgtcgacag	cggcacggca	5820
133	acggcctctc	ctgaccagcc	ctccgacgac	ggcgcgcgcg	gatccgacgt	tgagtcgtac	5880
134	tcctccatgc	cccccttga	gggggagccg	ggggatcccg	atctcagcga	cgggtcttgg	5940
135	tctaccgtaa	gcgaggaggc	tagtgaggac	gtcgtctgct	gctcgatgtc	ctacacatgg	6000
136	acaggcgccc	tgatcacgcc	atgcgtcgcg	gaggaaacca	agctgccccat	caatgcactg	6060
137	agcaactctt	tgtccgtca	ccacaacttg	gtctatgcta	caacatctcg	cagcgcaagc	6120
138	ctgcggcaga	agaaggtcac	ctttgacaga	ctgcaggtcc	tggacgacca	ctaccgggac	6180
139	gtgtcaagg	agatgaaggc	gaaggcgtcc	acagttaagg	ctaaacttct	atccgtggag	6240
140	gaagcctgta	agctgacgcc	cccacattcg	gccagatcta	aatttggcta	tggggcaaaag	6300
141	gacgtccgga	acctatccag	caaggccgtt	aaccacatcc	gctccgtgtg	gaaggacttg	6360
142	ctggaagaca	ctgagacacc	aattgacacc	accatcatgg	caaaaaatga	ggttttctgc	6420
143	gtccaaccag	agaagggggg	ccgcaagcca	gctcgcttta	tcgtattccc	agatttgggg	6480
144	gttcgtgtgt	gcgagaaaat	ggccctttac	gatgtggtct	ccaccctccc	tcaggccgtg	6540
145	atgggctctt	catacggatt	ccaatactct	cctggacagc	gggtcgagtt	cctggtgaat	6600
146	gcctggaaag	cgaagaaatg	ccctatgggc	ttcgcatatg	acaccgctg	ttttgactca	6660
147	acggtcactg	agaatgacat	ccgtgttgag	gagtcaatct	accaatgttg	tgacttggcc	6720
148	cccgaagcca	gacaggccat	aaggtcgctc	acagagcggc	tttacatcgg	gggccccctg	6780
149	actaattcta	aagggcagaa	ctgcggctat	cgccggtgcc	gcgcgagcgg	tgtactgacg	6840
150	accagctgcg	gtaataccct	cacatgttac	ttgaaggccg	ctgcggcctg	tcgagctgcg	6900
151	aagctccagg	actgcacgat	gctcgtatgc	ggagacgacc	ttgtcgttat	ctgtgaaagc	6960
152	gcggggaccc	aagaggacga	ggcgagccta	cgggccttca	cggaggctat	gactagatac	7020
153	tctgcccccc	ctggggaccc	gccccaaacca	gaatacgact	tggagttgat	aacatcatgc	7080
154	tcctccaatg	tgtcagtcgc	gcacgatgca	tctggcaaaa	gggtgtacta	tctcaccctg	7140
155	gacccccacca	cccccttgc	gcgggctgcg	tgggagacag	ctagacacac	tccagtcaat	7200

RAW SEQUENCE LISTING

DATE: 02/16/2006

PATENT APPLICATION: US/10/536,955

TIME: 12:49:51

Input Set : A:\P03068US1 SEQ ID.txt

Output Set: N:\CRF4\02162006\J536955.raw

156	tcctggctag	gcaacatcat	catgtatgcg	cccaccttgt	gggcaaggat	gatcctgatg	7260
157	actcatttct	tctccatcct	tctagctcag	gaacaacttg	aaaaagccct	agattgtcag	7320
158	atctacgggg	cctgttactc	cattgagcca	cttgacctac	ctcagatcat	tcaacgactc	7380
159	catggcctta	gcgcattttc	actccatagt	tactctccag	gtgagatcaa	tagggtggct	7440
160	tcatgcctca	ggaaacttgg	ggtaccgccc	ttgcgagtct	ggagacatcg	ggccagaagt	7500
161	gtccgcgcta	ggctactgtc	ccaggggggg	agggtcgcca	cttgtggcaa	gtacctcttc	7560
162	aactgggcag	taaggaccaa	gctcaaactc	actccaatcc	cggctgcgtc	ccagttggat	7620
163	ttatccagct	ggttcgttgc	tggttacagc	gggggagaca	tatatcacag	cctgtctcgt	7680
164	gcccgaaccc	gctggttcat	gtggtgccta	ctcctacttt	ctgtaggggt	aggcatctat	7740
165	ctactcccca	accgatgaac	ggggacctaa	acactccagg	ccaataggcc	atcctgtttt	7800
166	tttccctttt	tttttttctt	tttttttttt	tttttttttt	tttttttttt	ttctcctttt	7860
167	tttttctctt	ttttttcctt	ttctttcctt	tggtggtccc	atcttagccc	tagtcacggc	7920
168	tagctgtgaa	aggtccgtga	gccgcttgac	tgcagagagt	gctgatactg	gcctctctgc	7980
169	agatcaagta	ctcctgcagg	cgcgccacta	gtgggaatac	gcggggtatg	ccgcgtttta	8040
170	gcatattgac	gacccaattc	tcatgtttga	cagcttatca	tgcataagct	ttaatgcggt	8100
171	agtttatcac	agttaaattg	ctaacgcagt	caggcaccgt	gtatgaaatc	taacaatgcg	8160
172	ctcatcgta	tctcggcac	cgtaaccctg	gatgctgtag	gcataggctt	ggttatgccg	8220
173	gtactgccgg	gcctcttgcg	ggatatcgta	cattccgaca	gcatacgccag	tcactatggc	8280
174	gtgctgctag	cgctatatgc	gttgatgcga	tttctatgcy	racctgttct	cggagcactg	8340
175	tcgacccgt	tcgycggcg	cccagtctg	ctcgtctgcy	tacttgayc	racctatcgac	8400
176	tacgcgatca	tggcgaccac	accgctcctg	tggatcctct	acgccggagc	catcgtaggc	8460
177	ggcatcaccg	gcgccacagg	tgcggttgct	ggcgccata	tcgccgacat	caccgatggg	8520
178	gaagatcggg	ctcgccactt	cgggctcatg	agcgcttggt	tcggcgtagg	tatggtggca	8580
179	ggccccgtgg	ccgggggact	gttgggcgcc	atctccttgc	atgcaccatt	ccttgcggcg	8640
180	gcggtgctca	acggcctcaa	cctactactg	ggctgcttcc	taatgcagga	gtcgcataag	8700
181	ggagagcgtc	gaccgatgcc	cttgagagcc	ttcaaccacg	tcagctcctt	ccggtgggcy	8760
182	cggggcatga	ctatcgctgc	cgcacttatg	actgtcttct	ttatcatgca	actcgtagga	8820
183	caggtgccgg	cagcgtctct	ggtcattttc	ggcgaggacc	gctttcgctg	gagcgcgacg	8880
184	atgatcggcc	tgtcgcttgc	ggtattcgga	atcttgacag	ccctcgctca	agccttcgtc	8940
185	actggtcccg	ccaccaaacg	tttcggcgag	aagcaggcca	ttatcgccgg	catggcggcc	9000
186	gacgcgctgg	gctacgtctt	gctggcgctc	gcgacgcgag	gctggatggc	cttccccatt	9060
187	atgattcttc	tcgcttccgg	cggcatcggg	atgcccgcgt	tgcaggccat	gctgtccagg	9120
188	caggtagatg	acgaccatca	gggacagctt	caaggatcgc	tcgcggctct	taccagccta	9180
189	acttcgatca	ctggaccgct	gatcgtaacg	gcgatttatg	ccgcctcggc	gagcacatgg	9240
190	aacgggttgg	catggattgt	aggcgccgcc	ctataccttg	tctgcctccc	cgcgttgctg	9300
191	cgcggtgcat	ggagccgggg	cacctcgacc	tgaatggaag	ccggcggcac	ctcgctaacg	9360
192	gattcaccac	tccaagaatt	ggagccaatc	aattcttgcy	gagaactgtg	aatgcgcaaa	9420
193	ccaacccttg	gcagaacata	tccatcgctg	ccgccatctc	cagcagccgc	acgcggcgca	9480
194	tctcgggcag	cggtgggtcc	tggccacggg	tgcgcatgat	cgtgctcctg	tcgttgagga	9540
195	cccggctagg	ctggcggggt	tgccttactg	gttagcagaa	tgaatcaccg	atacgcgagc	9600
196	gaacgtgaag	cgactgctgc	tgcaaaacgt	ctgcgacctg	agcaacaaca	tgaatggtct	9660
197	tcggtttccg	tgtttcgtaa	agtctggaaa	cgcggaagtc	agcgccctgc	accattatgt	9720
198	tccgcatctg	catcgagga	tgctgctggc	taccctgtgg	aacacctaca	tctgtattaa	9780
199	cgaagcgtcg	gcattgaccc	tgagtgattt	ttctctggtc	ccgccgcac	cataccgcca	9840
200	gttgtttacc	ctcacaacgt	tccagtaacc	gggcatgttc	atcatcagta	acccgtatcg	9900
201	tgagcatcct	ctctcgtttc	atcggtatca	ttacccccat	gaacagaaat	tcccccttac	9960
202	acggaggcat	caagtgaaca	aacaggaaaa	aaccgccctt	aacatggccc	gctttatcag	10020
203	aagccagaca	ttaacgcttc	tggagaaact	caacgagctg	gacgcggatg	aacaggcaga	10080
204	catctgtgaa	tcgcttcacg	accacgctga	tgagctttac	cgcagctgcc	tcgcgcgttt	10140

RAW SEQUENCE LISTING

DATE: 02/16/2006

PATENT APPLICATION: US/10/536,955

TIME: 12:49:51

Input Set : A:\P03068US1 SEQ ID.txt

Output Set: N:\CRF4\02162006\J536955.raw

```

205 cgggtgatgac ggtgaaaacc tctgacacat gcagctcccc gagacgggtca cagcttgtct 10200
206 gtaagcggat gccgggagca gacaagcccc tcagggcgcg tcagcgggtg ttggcggggtg 10260
207 tcggggcgca gccatgaccc agtcacgtag cgatagcgga gtgtatactg gcttaactat 10320
208 gcggcatcag agcagattgt actgagagtg caccatatgc ggtgtgaaat accgcacaga 10380
209 tgcgtaagga gaaaataccg catcaggcgc tcttcgctt cctcgctcac tgactcgctg 10440
210 cgctcggtcg ttcggtcgcg gcgagcggtg tcagctcact caaaggcggt aatacggtta 10500
211 tccacagaat caggggataa cgcaggaaag aacatgtgag caaaaggcca gcaaaaggcc 10560
212 aggaaccgta aaaaggccgc gttgctggcg tttttccata ggctccgccc cctgacgag 10620
213 catcacaaaa atcgacgctc aagtcagagg tggcgaaacc cgacaggact ataaagatac 10680
214 caggcgtttc cccctggaag ctccctcggt cgctctcctg ttccgaccct gccgcttacc 10740
215 ggatacctgt ccgcctttct ccttcggga agcgtggcg tttctcatag ctacgctgt 10800
216 aggtatctca gttcggtgta ggtcggtcgc tccaagctgg gctgtgtgca cgaaccccc 10860
217 gttcagcccc accgctgcgc cttatccggt aactatcgct ttgagtccaa cccggtgaaga 10920
218 cagacttat cgccactggc agcagccact ggtaacagga ttagcagagc gaggtatgta 10980
219 ggcggtgcta cagagttctt gaagtgggtg cctaactacg gctacactag aaggacagta 11040
220 tttggtatct gcgctctgct gaagccagtt accttcggaa aaagagttgg tagctcttga 11100
221 tccggcaaac aaaccaccgc tggtagcggt ggtttttttg tttgcaagca gcagattacg 11160
222 cgcagaaaaa aaggatctca agaagatcct ttgatctttt ctacggggtc tgacgctcag 11220
223 tgggaacgaaa actcaggtt tgggattttg gtcagtggat tatcaaaaag gatcttccac 11280
224 tagatccttt tctagataat aaggactact ata 11313

```

228 <210> SEQ ID NO: 2

229 <211> LENGTH: 11313

230 <212> TYPE: DNA

231 <213> ORGANISM: Artificial Sequence

233 <220> FEATURE:

234 <223> OTHER INFORMATION: Plasmid

236 <400> SEQUENCE: 2

```

237 gccagcccc gattgggggc gacactccac catagatcac tcccctgtga ggaactactg 60
238 tcttcacgca gaaagcgtct agccatggcg ttagtatgag tgtcgtgcag cctccaggac 120
239 cccccctccc gggagagcca tagtggtctg cggaaccggt gagtacaccg gaattgccag 180
240 gacgaccggg tcttttcttg gatcaaccgc ctcaatgcct ggagatttgg gcgtgcccc 240
241 gcgagactgc tagccagta gtgttgggtc gcgaaaggcc ttgtggtact gcctgatagg 300
242 gtgcttgcca gtgccccggg aggtctcgta gaccgtgcac catgagcacg aatcctaaac 360
243 ctcaaagaaa aaccaaaggc cgcgccatga ttgaacaaga tggattgcac gcaggttctc 420
244 cggccgcttg ggtggagagg ctattcggtc atgactgggc acaacagaca atcggtgct 480
245 ctgatgccgc cgtgttccgg ctgtcagcgc agggcgccc gggtcttttt gtcaagaccg 540
246 acctgtccgg tgccctgaat gaactgcagg acgaggcagc gcggctatcg tggctggcca 600
247 cgacgggcgt tcttgcgca gctgtgctcg acgttgtcac tgaagcggga agggactggc 660
248 tgctattggg cgaagtgcg gggcaggatc tctgtcatc tcacctgct cctgccgaga 720
249 aagtatccat catggctgat gcaatgcggc ggctgcatac gcttgatccg gctacctgcc 780
250 cattcgacca ccaagcgaaa catcgcatcg agcagcacg tactcggatg gaagccggtc 840
251 ttgtcgatca ggatgatctg gacgaagagc atcaggggct cgcgccagcc gaactgttcg 900
252 ccaggctcaa ggcgcgcag cccgacggcg aggatctcgt cgtgacccat ggcgatgcct 960
253 gcttgccgaa tatcatggtg gaaaatggcc gcttttcttg attcatcgac tgtggccggc 1020
254 tgggtgtggc ggaccgctat caggacatag cgttggctac ccgtgatatt gctgaagagc 1080
255 ttggcggcga atgggctgac cgcttccctg tgctttacgg tatcgccgct cccgattcgc 1140
256 agcgcacgc cttctatcgc cttcttgacg agttcttctg agtttaaca gaccacaacg 1200
257 gtttccctct agcgggatca attccgcccc tctccctccc cccccctaa cgttactggc 1260
258 cgaagccgct tggataaagg ccggtgtgcg tttgtctata tgttattttc caccatattg 1320

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/536,955

DATE: 02/16/2006

TIME: 12:49:52

Input Set : A:\P03068US1 SEQ ID.txt

Output Set: N:\CRF4\02162006\J536955.raw